

Amendments to the Claims:

1 – 3 (Canceled)

4. (Currently Amended) A method for constructing a frame base knowledge representation, the method comprising the steps of:

selecting articles to serve as an information source for the knowledge representation;

extracting and formatting information contained in the articles for storage in the knowledge representation including representing a fact expressed in an article's natural language as at least an object and process relationship, wherein the information extraction is performed by knowledge extraction personnel;

verifying that the information extracted from the selected articles by knowledge extraction personnel is correct and that it has been placed in the correct format for storage in the knowledge representation, wherein the verification is performed by quality control personnel; and

storing the formatted information in the knowledge representation.

5. (Canceled)

6. (Currently Amended) The method of claim 4[[5]] wherein both the extracting step and verifying step are performed by the same person, which person has been qualified by a predetermined procedure to perform both steps simultaneously.

7. (Original) The method of claim 4 wherein at least the steps of extracting and verifying occur in geographically separated locations.

8. (Original) The method of claim 7 wherein the geographically separate locations are chosen based upon the cost of performing the respective steps of extracting and verifying, the lowest cost location for each step being selected.

9. (Previously Presented) The method of claim 4, wherein the extracting information step includes using a computer-driven parser of natural language.

10. (Previously Presented) The method of claim 4, wherein the representing step includes representing an object and process relationship in the form of the process being an action that acts upon the object.
11. (Previously Presented) The method of claim 4, wherein the representing step includes representing an object and process relationship in the form of the first object being an effector of the process and the process is an action that acts upon one or more second objects.
12. (Currently Amended) A system for extracting information from articles originating from a first database and storing the extracted information in a second database, the system comprising:

an information extraction unit which extracts a finding from an article's natural language and translates this finding into a structured finding comprising at least an object, process, and a relationship between the object and process;

a database management unit in communication with the information extraction unit for determining if verifying whether the structured finding has been properly formatted for storage in the second database;

an information storage unit in communication with the second database for storing the structured finding in the second database.
13. (Previously Presented) The system of claim 12, further comprising a query management and information display unit for responding to user inquiries for information stored in the second database and for retrieving information from the second database in response to those queries.
14. (Previously Presented) The system of claim 12, wherein the second database is frame-based.
15. (Previously Presented) The system of claim 12, wherein the structured finding is formatted according to a fact-based model.

16. (Previously Presented) The system of claim 12, wherein the relationship between the object and process takes the form of the process is an action that acts upon the object.
17. (Previously Presented) The system of claim 12, wherein the object is a gene, protein, cell, or organism.
18. (Previously Presented) The system of claim 12, wherein the finding is derived from one or more sentences, a portion of a sentence, a diagram, figure or table.
19. (Previously Presented) The system of claim 12, wherein the second database includes an ontology.
20. (Previously Presented) The system of claim 12, wherein the first database is coupled to, and in communication with the information extraction unit.
21. (Previously Presented) The system of claim 12, further including an article selection unit, for selecting articles for information extraction from among a plurality of articles residing in the first database.
22. (Currently Amended) The system of claim 12, wherein the article's representation of the finding has a first ~~semantic-structure-format~~ and wherein the translation of the finding includes a translation of the finding into a natural language having a second ~~semantic structure-format~~.
23. (Previously Presented) The system of claim 12, wherein information is extracted using a user template.
24. (Previously Presented) The system of claim 12, wherein information is extracted using a computer driven parser of the natural language.
25. (Previously Presented) The system of claim 12, wherein the structured finding comprises a first object, second object and a process relationship.
26. (Currently Amended) The system of claim 25, ~~wherein the second object is an additional process or pathway~~12, wherein the structured finding comprises an object, a process and a process relationship.

27–34 (Canceled)

35. (Previously Presented) The system of claim 12, wherein the object is an effector of a plurality of processes and all of these processes are actions that act upon a second object.
36. (Previously Presented) The system of claim 12, wherein the article's natural language includes a first and second finding and wherein the first finding comprises the process and object and the object includes the second finding.